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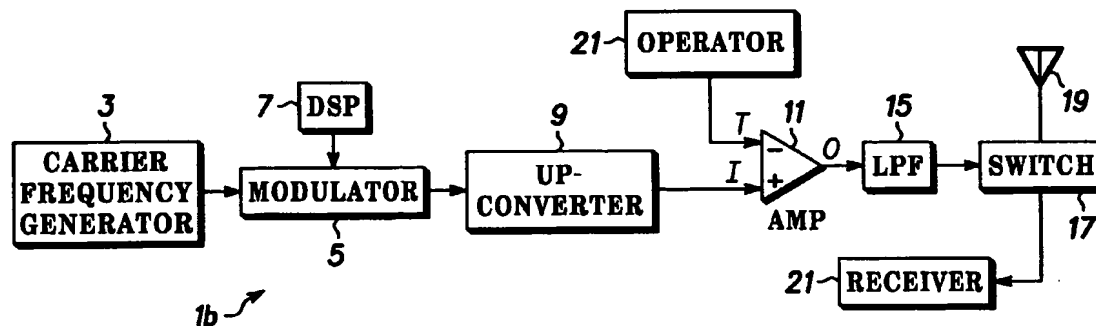
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ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: **AMPLIFIER CIRCUITS AND THEIR USE IN RADIO FREQUENCY TRANSMITTERS**



(57) Abstract: An RF Amplifier circuit comprises an RF amplifying device having a first input terminal, a second input terminal and an output terminal, means for applying to the first input terminal an input FR signal I to be amplified, means for applying to the second input terminal a threshold signal T, and the amplifying device being operable to produce at the output terminal an output signal O which has a high finite value providing a Boolean '1' value when the instantaneous value of the amplitude of I is greater than T and a low finite value providing a Boolean '0' value when the instantaneous value of the amplitude of I is less than T, wherein the threshold signal is dynamically varied in a manner adapted to linearise the relationship in at least part of its range between the amplitude of the output part of its range between the amplitude of the output signal O and the amplitude of the input signal I. The amplifier circuit beneficially can provide a combination of linearity and high efficiency and is suitable for use in power amplifiers for RF communications and other applications.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/01873

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H03F1/32 H03G3/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 900 823 A (SOKAL ALAN D ET AL) 19 August 1975 (1975-08-19) column 24, line 64 -column 26, line 10	1-4, 20, 24
A	the whole document	5-19
A	US 5 710 521 A (BUTLER BRIAN K) 20 January 1998 (1998-01-20) column 2, line 19 - line 39	1-24
A	US 5 194 823 A (WENDT PETER ET AL) 16 March 1993 (1993-03-16) column 3, line 50 -column 4, line 47	1-24

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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